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## In the claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1. (Currently amended) A method for gluing microcomponents to a substrate in the production of microsystem components, comprising the following steps:

applying a reactive or nonreactive, <u>pulverulent</u>, hotmelt adhesive to <u>with a result that only</u> selected contact areas on a surface of at least one of a substrate and at least one microcomponent, <u>said hotmelt adhesive not being present on other areas on said surface of said at least one of a substrate and at least one microcomponent; and <u>and/or the substrate</u>; heating the hotmelt adhesive, and</u>

applying the at least one microcomponent to the substrate[[,]] by melting the hotmelt adhesive being on the contact areas when the hotmelt adhesive is between the at least one microcomponent and the substrate, and bonding wherein said applying step includes areal application of pulverulent hotmelt adhesive to a surface of the substrate or the at least one microcomponent, incipient melting of selected bond sites by local heating by means of irradiation of the selected bondsites through a focusable heat source of a powder layer; removal of the powder layer not incipiently melted; and adhesion of the at least one microcomponent to the substrate during cooling of the hotmelt adhesive below its melting point.

2. (Currently amended) The method of claim 1, wherein said <u>step of applying a reactive or nonreactive</u>, <u>pulverulent</u>, <u>hotmelt adhesive includes the steps of</u>

applying a tape or layer of said hot melt adhesive to said surface of said at least one of a substrate and at least one microcomponent.

heating said tape or layer at regions which correspond to said contact areas to a temperature sufficient to melt said hotmelt adhesive at said retions, wherein said heating takes place selectively with a focusing heat source, and

removing hotmelt adhesive from said surface of said at least one of a substrate and at least one micocomponent in regions which were not heated in said heating step.

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3. (Previously presented) The method of claim 1 wherein the hotmelt adhesive is applied as granules.

- 4. (Currently amended) The method of claim 1 wherein the incipient melting the hotmelt adhesive during the step of applying the at least microcomponent to the substrate is achieved using takes place with a laser as a heat source.
- 5. (Currently amended) The method of claim 1 further comprising the step of wherein said applying a reactive or nonreactive, pulverulent, hotmelt adhesive is performed by immersing a heated substrate or microcomponent in said pulverulent hotmelt adhesive to apply the adhesive at immersed areas which correspond to said selected contact areas.
- 6. (Currently amended) The method of claim 1 wherein said <u>applying a reactive or nonreactive</u>, <u>pulverulent</u>, <u>hotmelt adhesive applying</u> step includes application of <u>said pulverulent</u> hotmelt adhesive through a contoured screen to <u>said at least one of</u> the substrate or the at least one microcomponent.
- 7. (Currently amended) The method of claim 1 further comprising the <u>a</u> step of electrostatic charging of a surface <u>of said at least one of said substrate or said at least one microcomponent</u> and/or <u>said a pulverulent</u> hotmelt adhesive to support <u>either</u> the areal or patterned application of <u>said hotmelt</u> adhesive <u>in said applying a reactive or nonreactive, pulverulent, hotmelt adhesive step</u>.
- 8. (Currently amended) The method of claim 1 further comprising the step of immersion wherein said applying a reactive or nonreactive, pulverulent, hotmelt adhesive step is performed by immersing of a heated patterned surface of the at least one of a substrate or the at least one microcomponent in pulverulent said hotmelt adhesive to apply the hotmelt adhesive at raised sites on the patterned surface which correspond to said selected contact areas.

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9. (Currently amended) The method claim 1 further comprising the step of wherein said step of applying a reactive or nonreactive, pulverulent, hotmelt adhesive includes the steps of

electrostatic charging of a roll, and wherein <del>areal</del> application of the <del>pulverulent</del> hotmelt adhesive is made to a partly electrostatically charged surface of the roll, and

transferring selected bondsites from the roll to the <u>at least one of the</u> substrate or the at least one microcomponent, and

wherein brief heating of the surface of the roll is used to incipiently melt the adhesive, and transferring the hotmelt adhesive to said surface of said at least one of said substrate and said at least one microcomponent.

- 10. (Currently amended) The method of claim 1 further comprising the <u>a</u> step of electrostatic charging of the selected bondsites, and wherein areal application of the pulverulent hotmelt adhesive is performed to wherein application of said hotmelt adhesive in said applying a reactive or nonreactive, pulverulent, hotmelt adhesive step is performed by applying said hotmelt adhesive to a partly electrostatically charged surface of the at least one of the substrate or the at least one microcomponent, and brief heating of the surface is performed to incipiently melt the hotmelt adhesive at the electrostatically charged bondsites.
- 11. (Currently amended) The method of claim 1, further comprising placement of <u>a step of placing</u> a transfer sheet with granular or pulverulent adhesive <u>attaching attached</u> thereto, or of a layer produced from hotmelt adhesive, to the <u>adherend of</u> the at least <u>one of the substrate or at least</u> one microcomponent or <u>substrate</u>.
- 12. (Currently amended) The method of claim 11, further comprising the <u>a</u> step of contouring of the transfer sheet to selected bondsites.
- 13. (Currently amended) The method of claim 11, characterized by application of the adhesive to selected bondsites, when the transfer sheet lies on the surface of at least onemicrocomponent or substrate, by further comprising transferring hotmelt adhesive to said

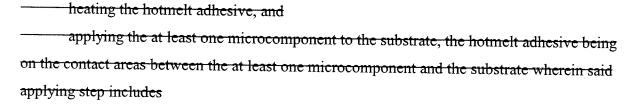
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<u>surface by either mechanically stamping the transfer sheet onto the at least one of the substrate</u> or the at least one microcomponent, or <u>by</u> locally heating the transfer sheet.

- 14. (Currently amended) The method of claim 1 further comprising the <u>a</u> step of preheating of <u>at least surfaces</u> to which <u>hotmelt</u> adhesive is <u>to be</u> applied.
- 15. (Currently amended) The method of claim 1 further comprising the <u>a</u> step of afterheating of the at least one microsystem component microcomponent after adhering to the substrate.
- 16. (Currently amended) The method of claim 14 15, wherein the afterheating takes place selectively by means of using a focused or global focusing heat source or globally.
- 17. (Currently amended) The method of claim  $\frac{3}{2}$  wherein the granules of the <u>hotmelt adhesive</u> adhesives have a diameter of less than 150  $\mu$ m.
- 18. (Currently amended) The method of claim 17, wherein the diameter of the granules is situated in the range from 0.5 to  $150 \mu m$ .
- 19. (Currently amended) A microsystem component having at least one microcomponent bonded to a substrate, <del>characterized in that</del> wherein the adhesive bonding is performed by the method of:

applying a reactive or nonreactive hotmelt adhesive to at least one microcomponent and/or the substrate;



areal application of pulverulent hotmelt adhesive to a surface of the at least one of a substrate or the at least one microcomponent,

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incipient melting of <u>said hotmelt adhesive at</u> selected bond sites <u>on said surface</u> by <u>heating by means of irradiation of irradiating a powder layer on</u> the selected bond sites <u>through using</u> a focusable heat source <u>of a powder layer</u>; removal of the powder layer not incipiently melted; and <u>adhering the at least one</u> adhesion of the at least one microcomponent to the substrate <u>during cooling of the hotmelt adhesive</u>.

- 20. (Currently amended) The microsystem component of claim 19, characterized in that wherein the at least one microcomponent is smaller than 1000  $\mu m$ .
- 21. (New) The method of claim 6, wherein said hotmelt adhesive is applied as a dispersion.